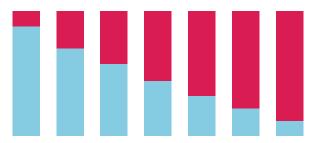
Factsheet

Technical Debt

Technical debt is the extra effort that will later arise when code that is expedited in the short term is used instead of applying a solution optimised for clarity, evolvability and maintenance.



The build-up of technical debt is a major cause for projects to miss deadlines as focus shifts from development of features to fighting debt.

Causes of technical debt

- Business pressure to release early
- Lack of alignment to standards
- Lack of automated testing
- · Not refactoring code as it is implemented
- Poor knowledge of how to craft high quality elegant code.
- Poor or low technical leadership
- Band-aid approaches

How to take action

- Dev teams should take responsibility for code quality
- Include time in estimates to create high quality product
- Ensure the definition of done and other standards are implemented
- Use tools to measure technical debt
- Make existing debt transparent by adding items to the product backlog

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Useful metrics



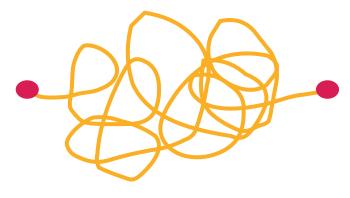
SQALE rating - Software Quality Assessment based on Lifecycle Expectations.

Cost of delay - A way of demonstrating and understanding the impact of time and value when not completing something.

Test coverage - How much of the system is covered by automated tests.

Defect density - The number of defects found in the system.

Cyclomatic complexity - Indicates the complexity of the code.



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